



P<sub>lac</sub>

5'

CGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCAGCACAGGTTTCC  
CGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCAGGCTT  
TACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAAT 3'

(SEQ ID NO 1)

P<sub>phoP</sub>

5'

GTGACTCTGGTCGACGAACTTAAATAATGCCTGCCTCACCCCTCTTTTCTTCAGAAAGAGGGTGACTATTTG  
TCTGGTTTATTAACGTGTTTATCCCCAAAGCACCATAATCAACGCTAGACTGTTCTTATTGTTAACACA 3'

(SEQ ID NO 2)

P<sub>pgc</sub>

5'

GTTAACCACCTCTTAATAATAATGGGTTTTATAGCGAAATAGACTTTTTTATCGCGTGTTCAATATTTGCGT  
TAGTTATTATTTTTTTGGAATGTAAATCTCTCTAAACACAGGTGATATTTATGTTGGAATTGTGGTGTG  
ATTCTATTCTTATAATATAACAAGAAATGTTGTAACGTAGATATATTAAGATTAAATCGGAGCGGGA  
ATAAAGCGTGCTAAGCATCATCGTGAATATGATTACAGCGCCTGCGATGGCATATAACCGTATTGCGGATG  
GAGCGTCACGTGAGGACTGTGAAGCACAAATGCGATATGTTCTGATTATATGGCGAGTTTGCTTAATGACAT  
GTTTTTAGCCGAACGGTGTCAAGTTCTTAATGTGGTGTGAGATTTTCTCTTTAAATATCAAATGTTGC  
ATGGGTGATTTGTTGTTCTATAGTGGCTAAACACTTTATGGTTTCTGTTAAATATATATGCGTGAGAAAA  
TTAGCATTCAAATCTATAAAGTTAGATGACATTGTAGAACCGTTACCTAAATGAGCGATAGAGTGCTTC  
GGTAGTAAAAATATCTTTCAGGAAGTAAACACATCAGGAGCGATAGCGGTGAATTATTCGTGGTTTTGTG  
ATTCGGCATAGTGGCGATAACTGAATGCCGGATCGGTACTGCAGGTGTTTAAACACACCGTAAATAATAAG  
TAGTA 3'

(SEQ ID NO 3)

P<sub>ompC</sub>

5'

TAAACAGACATTCAGAAGTGAATGACGGTAATAAATAAAGTTAATGATGATAGCGGTCACTATTTTAGTTG  
CGAATGAAGATTCTGTTTTATCATTCACTGCTATGAATTTTCATCAATTTAACCGTTGATTTTAAAGTTT  
CGTGAAATATATTTTGTCTATTTGTGCTTATTTTTACTTGATTTTTGCTTTAAAAAAGTTCCGTAAATTC  
ATATTTTGAAACATCTATATAGATAACTGTAACATCTTAAAGTTTTAGTATCATATTCGTGTTGGATTAT  
TCTGTATTTTTGCGGAGAAATGGACTTGCCGACTGGTTAATGAGGGTTAACCAGTAAGCAGTGGCATAAAAA  
AGCAATAAAGGCATAT 3'

(SEQ ID NO 4)

Added

The locations of oligonucleotide primers used in the PCR are shown underlined. Promoter regions are shown in bold and repeated sequences upstream of these promoters are shown double underlined